Section	Item			Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
I	Treatment of Stored Waste									
		Formula Development		LS	1	$ 27,171.17	$ 27,171.17			Estimated- Note: Envirocare minimizes acceptance of waste without formula
		Treatment		CY	6,950	$ 231.36	$ 1,607,945.54			Cost taken from 12/21/98 adjustment to attachment II-7-1
		Verification Analytical		Each	158	$ 2,356.29	$ 372,293.61			Cost taken from 12/21/98 adjustment to attachment II-7-1
		Haul Volume		CY	15,625	$ 2.39	$ 37,343.75		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Place in Cell		CY	15,625	$ 1.23	$ 19,218.75		023155200010	place soil in cell w/dozer
		Compaction in Cell		CY	15,625	$ 0.27	$ 4,218.75		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
		Total				**Total**	**$ 2,068,191.57**			
II	Staging Area									Assume total decommissioning time is 24 months; existing facilities used for half this time.
		Trailer		Months	24	$ 286.00	$ 6,864.00		015205000550	Field office - 50' x 12' trailer - 2 units for 12 months each
		Trailer delivery		Miles	300	$ 1.53	$ 459.00		015205000800	Trailer delivery and demobilization -- 150 miles round trip per trailer
		Temporary Decon Facility		Months	2	$ 2,173.70	$ 4,347.39			Cost to rent/operate mobile pad (inc. steam cleaner), use existing pad for first 22 months
						Total	**$ 11,670.39**			
III	Storage Pads and MW Truck Unloading Facility							9609-2,9609-3		
		East Container Storage Area						9803-1		
			Asphalt	SY	8,889	$ 4.70	$ 41,778.30		022202505050	Pavement Removal 4" to 6" thick
			Storage Pad Base	CY	1,986	$ 2.35	$ 4,667.10		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
			Soil Excavation	CY	1,482	$ 2.35	$ 3,482.70		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Southeast Container Storage Area						0013-01		
			Concrete	SF	6,720	$ 10.13	$ 68,073.60		022201302440	Concrete plain 10" thick
			Storage Pad Base	CY	167	$ 2.35	$ 392.45		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
			Soil Excavation	CY	125	$ 2.35	$ 293.75		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
			Sump Removal	EA	1	$ 220.00	$ 220.00		022202400020	Remove Catch Basin
		South Container Storage Area						0013-01		
			Asphalt	SY	4,979	$ 4.70	$ 23,401.30		022202505050	Pavement Removal 4" to 6" thick
			Storage Pad Base	CY	1,660	$ 2.35	$ 3,901.00		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
			Soil Excavation	CY	830	$ 2.35	$ 1,950.50		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Drainage Trough upgrade						0013-01		
			Concrete sides	SF	1,530	$ 8.36	$ 12,790.80		022201302400	Cost reflects a 6" thick wall with a 10 % addition for reinforcing bars
			Concrete bottom	SF	1,020	$ 9.56	$ 9,751.20		022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement
		Central Container Storage Area								
			Asphalt	SY	2,167	$ 4.70	$ 10,184.90		022202505050	Pavement Removal 4" to 6" thick
			Storage Pad Base	CY	484	$ 2.35	$ 1,137.40		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
			Soil Excavation	CY	362	$ 2.35	$ 850.70		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks

Section	Item					Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
		Haul Volumes				CY	9,142	$ 2.39	$ 21,849.38		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Place Material in cell										
			Debris			CY	2,046	$ 2.46	$ 5,033.16		023155200010	place, w/ dozer (200% soil costs)
			soil			CY	7,096	$ 1.23	$ 8,728.08		023155200010	place soil in cell w/dozer
		Compaction of Material in Cell				CY	9,142	$ 0.27	$ 2,468.34		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
		Restoration of Grade										
			Backfill			CY	2,797	$ 2.93	$ 8,195.21		023154522300	Common Earth hauling
			Final Grade			SY	22,755	$ 0.10	$ 2,275.50		023101003300	Final Grade Disturbed Area
		MW Truck Unloading Facility (outside Restricted Area)										
			Retaining Walls			SF	1,967	$ 9.56	$ 18,804.52		022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement
			Footings			SF	1,064	$ 13.37	$ 14,225.68		022201302500	Concrete removal 12" reinforced
			Asphalt			SY	1,214	$ 2.86	$ 3,472.04		022202505010	Pavement removal, bituminous roads; 3" thick
		Haul to Landfill										
			Debris Loading			CY	316	$ 11.79	$ 3,725.64		022203503080	Rubbish handling, loading
			Haul			CY	316	$ 0.90	$ 284.40		022203505100	2 Mile RT, rubbish handling, over 8 CY truck to LARW cell
			Tipping Fee			Ton	316	$ 70.00	$ 22,120.00		022203300100	Dump charges, building construction materials (assume 1 cy = 1 ton)
								Total	**$ 294,057.65**			
IV	Pump House and Water Tank									9317-L103/M1		
		Pump House building				CF	2,800	$ 0.20	$ 560.00		022201100012	Building demolition of a small metal building
		Foundation										
			Stem Wall			SF	136	$ 9.12	$ 1,240.32		022201302400	Cost reflects doubling of a 6" thick Wall with a 20 % addition for reinforcing bars
			Footing			LF	68	$ 8.37	$ 569.16		022201301000	Footings 1' wide x 2' thick
		Flooring				SF	280	$ 9.56	$ 2,676.80		022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement
		Haul to Landfill										
			Debris Loading			CY	28	$ 11.79	$ 330.12		022203503080	Rubbish handling, loading
			Haul			CY	28	$ 0.90	$ 25.20		022203505100	2 Mile RT, rubbish handling, over 8 CY truck to LARW cell
			Tipping Fee			Ton	28	$ 70.00	$ 1,960.00		022203300100	Dump charges, building construction materials (assume 1 cy = 1 ton)
								Total	**$ 7,361.60**			
Va	Mixed Waste Storage Building											
	DECONTAMINATION											
		(2) Tanks										
			Triple Rinse to RCRA Clean			Days	2	$ 434.74	$ 869.48			Assume 1 day per tank
			Radiologic Decontamination			Days	2	$ 434.74	$ 869.48			Assume 1 day per tank; radiological decon cost taken from LARW surety
	DEMOLITION											
		Mixed Waste Storage Building				CF	77,000	$ 0.20	$ 15,400.00		022201100012	building demolition of a small metal building
		Foundation										
			Stem Wall									
				Mixed Waste Storage Building		SF	1,140	$ 9.56	$ 10,898.40		022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement
				Secondary Containment		SF	352	$ 9.56	$ 3,365.12		022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement
				Outside Wash pad (east/west)		SF	60	$ 9.56	$ 573.60		022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement

Section	Item				Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
				Outside wash pad (north/south)	SF	30	$ 9.56	$ 286.80		022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement
				Outside Dock Walls	SF	238	$ 9.56	$ 2,275.28	9317-L101	022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement
			Footing								
				Mixed Waste Storage Building	LF	380	$ 8.37	$ 3,180.60		022201301000	Footings 1' wide x 2' thick
				Outside Dock Footing	LF	160	$ 8.37	$ 1,339.20		022201301000	Footings 1' wide x 2' thick
				Secondary Containment	SF	294	$ 8.37	$ 2,460.78		022201301000	Footings 1' wide x 2' thick. Footing is adjusted to account for odd size footings
		Concrete									
			1st Floor Flooring		SY	667	$ 9.89	$ 6,596.63		022202505300	cost is the same as a concrete driveway 6" thick reinforced
			Secondary Containment		SY	55	$ 9.89	$ 543.95		022202505300	cost is the same as a concrete driveway 6" thick reinforced
			Outside Wash Pad		SY	200	$ 9.89	$ 1,978.00		022202505300	cost is the same as a concrete driveway 6" thick reinforced
			Outside Dock		SF	1,742	$ 9.56	$ 16,653.52		022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement
		Asphalt			SY	2,084	$ 2.86	$ 5,960.24		022202505010	Pavement removal, bituminous roads; 3" thick
		Cover Of 2nd Containment			SF	595	$ 1.83	$ 1,088.85	9517-2	090601203820	2x8 flooring demolition: Added 200% for metal roofing
		Utilities									
			Septic Tanks		Each	1	$ 259.15	$ 259.15			
		Soil Excavation			CY	1,232	$ 2.35	$ 2,895.20		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Hauling Volume			CY	2,051	$ 2.39	$ 4,901.89		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Place Material in cell									
			Debris		CY	819	$ 2.46	$ 2,014.74		023155200010	place, w/ dozer (200% soil costs)
			soil		CY	1,232	$ 1.23	$ 1,515.36		023155200010	place soil in cell w/dozer
		Compaction			CY	2,051	$ 0.27	$ 553.77		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
		Restoration of Grade									
			Backfill		CY	771	$ 2.93	$ 2,259.03		023154522300	Common Earth hauling
			Final Grade		SY	3,199	$ 0.10	$ 319.90		023101003300	Final Grade Disturbed Area
		Asphalt Parking Lot (outside Restricted Area)									
			Asphalt		SY	4,445	$ 2.86	$ 12,712.70		022202505010	Pavement removal, bituminous roads; 3" thick
		Haul to Landfill									
			Debris Loading		CY	371	$ 11.79	$ 4,374.09		022203503080	Rubbish handling, loading
			Haul		CY	371	$ 0.90	$ 333.90		022203505100	2 Mile RT, rubbish handling, over 8 CY truck to LARW cell
			Tipping Fee		Ton	371	$ 70.00	$ 25,970.00		022203300100	Dump charges, building construction materials (assume 1 cy = 1 ton)
Vb	Thermal Desorption Unit										Macro extruder moved to VIIc.
		Removal			Days	2	$ 434.74	$ 869.48			Estimated
		Triple Rinse			Days	1	$ 434.74	$ 434.74			Estimated
		Decontamination			Days	2	$ 434.74	$ 869.48			Estimated
		Haul Volume			CY	34	$ 2.39	$ 81.26		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Worst Case Disposal									
			Placement		CY	34	$ 2.46	$ 83.64		023155200010	place, w/ dozer (200% soil costs)
			Compaction		CY	34	$ 0.27	$ 9.18		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes

Section	Item		Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
					Total	**$ 134,797.43**			
VIa	Mixed Waste Treatment Building								
		(all cement is included in MW Treatment Building)							
	DEMOLITION								
		Mixed Waste Treatment Building	CF	280,600	$ 0.20	$ 56,120.00	9317-L102/L10	022201100012	Building demolition of a small metal building
		Foundation					9317-C1-C9		
		Stem Wall	SF	3,280	$ 14.58	$ 47,822.40	9317-C5 (A	022201302500	Cost reflects a 12" thick wall with a 20% addition for reinforcing bars
		Footing	CY	11	$ 82.00	$ 902.00	9317-C5	022202505500	24" thick reinforced concrete
		Interior Concrete (Tank walls and footings)	CY	99	$ 82.00	$ 8,118.00	9317-C5 (A	022202505500	24" thick reinforced concrete
		Flooring in Viewing Area 6" thick	SY	23	$ 9.89	$ 227.47		022202505300	6" thick rod reinforced concrete
		Flooring in Storage Area 8" thick	SF	1,200	$ 9.56	$ 11,472.00	9317-C5 (E	022201302420	Remove 8" thick concrete wall; add 10% for heavy reinforcement
		Flooring in Main building	SY	900	$ 9.89	$ 8,901.00	9317-C5	022202505300	reinforced concrete
		Misc. Conc Slabs	SY	235	$ 9.89	$ 2,324.15	9317-C5	022202505300	reinforced concrete
		Soil Excavation							
		Mixed Waste Treatment Building	CY	176	$ 2.35	$ 413.60		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Concrete Pads	CY	22	$ 2.35	$ 51.70		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Haul Volumes	CY	3,217	$ 2.39	$ 7,688.63		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Place into cell							
		Debris	CY	3,019	$ 2.46	$ 7,426.74		023155200010	place, w/ dozer (200% soil costs)
		Soil	CY	198	$ 1.23	$ 243.54		023155200010	place soil in cell w/dozer
		Compaction	CY	3,217	$ 0.27	$ 868.59		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
		Restoration of Grade							
		Backfill	CY	198	$ 2.93	$ 580.14		023154522300	Common Earth hauling
		Final Grade	SY	1,185	$ 0.10	$ 118.50		023101003300	Final Grade Disturbed Area
VIb	Waste Receiving Tank						9317--S11		Cement tank; all demolition, hauling, and disposal accounted for in section VIa.
VIc	Liquid Waste Storage Tanks (Foundation and Future Construction)							Drawing Series 03023 from As-Built Report dated November 8, 2004	
	DECONTAMINATION								
		Triple Rinse (RCRA Clean)	Days	2	$ 434.74	$ 869.48			Time needed to Triple rinse steel to RCRA Clean
		Decontamination	Days	2	$ 434.74	$ 869.48			Time needed to Triple rinse steel to RCRA Clean
	DEMOLITION								
		Steel Tanks							
		Torch Cutting	lf	232	$ 1.25	$ 290.00		050909200100	Torch cutting steel 1/2" thick
		Leveling Pad	SY	16	$ 8.69	$ 139.04		022201302420	Concrete plain 8" thick
		Tank Pad							
			SY	16	$ 8.69	$ 139.04		022201302420	Concrete plain 8" thick
			SY	35	$ 10.13	$ 354.55		022201302440	Concrete plain 10" thick
			SY	16	$ 7.60	$ 121.60		022201302400	Remove 6" thick reinforced
		Footings	LF	59	$ 8.37	$ 493.83		022201301000	Footings 1' wide x 2' thick
		Haul Volumes	CY	44	$ 2.39	$ 105.16		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT

Section	Item		Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
		Placement							
		Debris	CY	44	$ 2.46	$ 108.24		023155200010	place, w/ dozer (200% soil costs)
		Compaction of Material in Cell	CY	44	$ 0.27	$ 11.88		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
VId	Primary & Tertiary Shredders						9317-C7		Concrete demolition, hauling, and disposal accounted for in section VIa
		Removal of machinery	Days	2	$ 271.71	$ 543.41			Time needed to take machinery down from platforms
		Triple Rinse (RCRA Clean)	Days	2	$ 434.74	$ 869.48			Time needed to Triple rinse steel to RCRA Clean
		Decontamination	Days	4	$ 434.74	$ 1,738.96			Time needed to decontaminate machine
VIe	Mixer Tank						9317--S11		Concrete demolition, hauling, and disposal accounted for in section VIa
		Removal of machinery	Days	2	$ 434.74	$ 869.48			Time needed to take machinery down from platforms
		Triple Rinse (RCRA Clean)	Days	2	$ 434.74	$ 869.48			Time needed to Triple rinse steel to RCRA Clean
		Decontamination	Days	4	$ 434.74	$ 1,738.96			Time needed to decontaminate machine
		Tank Cutting	LF	126	$ 0.76	$ 95.76		022203700020	Estimated cutting required to meet max permissible disposal size
VIf	Dust Collection System						9317-M3		Concrete demolition, hauling, and disposal accounted for in section VIa
		Removal of Duct (in Building Debris vol)							Duct demolition included in building demolition above.
		Removal of machinery	Days	6	$ 434.74	$ 2,608.43			Time needed to take machinery down from platforms
					Total	**$ 166,114.71**			
VIIa	Mixed Waste Operations Building								
	DECONTAMINATION								
		Misc equipment and furniture	Days	5	$ 434.74	$ 2,173.70			Estimated decon time for Misc furniture and equipment
	DEMOLITION								
		Operations Building	CF	524,550	$ 0.20	$ 104,910.00		022201100012	Building demolition of a small metal building
		Foundation							
		Stem Wall	SF	1,168	$ 10.43	$ 12,182.24		022201302420	Cost reflects a 8" thick wall with a 20 % addition for reinforcing bars 020 754 2620
		Footing	CY	10	$ 82.00	$ 820.00	9317-C5	022202505500	7" to 24" thick reinforced concrete
		Concrete Floor	CY	752	$ 82.00	$ 61,664.00		022202505500	7" to 24" thick reinforced concrete
		Secondary Containment	CY	36	$ 82.00	$ 2,952.00	9317-C5	022202505500	7" to 24" thick reinforced concrete
		Utilities							
		Septic Tanks	Each	2	$ 262.36	$ 524.71			
		Liner Shredding	Days	1	$ 1,282.42	$ 1,282.42			Estimated time to shred (shredder plus personnel) the liner under concrete flooring
		Soil Excavation							
		Pea Gravel	CY	484	$ 2.35	$ 1,137.40		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Soils Excavation	CY	375	$ 2.35	$ 881.25		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Haul Volumes	CY	1,774	$ 2.39	$ 4,239.86		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Place into cell							
		Debris	CY	1,399	$ 2.46	$ 3,441.54		023155200010	place, w/ dozer (200% soil costs)
		Soil	CY	375	$ 1.23	$ 461.25		023155200010	place soil in cell w/dozer
		Compaction of Material in Cell	CY	1,774	$ 0.27	$ 478.98		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
		Restoration of Grade							
		Backfill	CY	859	$ 2.93	$ 2,516.87		023154522300	Common Earth hauling
		Final Grade	SY	2,244	$ 0.10	$ 224.40		023101003300	Final Grade Disturbed Area

Section	Item	Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
	Outside Restricted Area							
	Asphalt Parking Lot	SY	250	$ 2.86	$ 715.00		022202505010	Pavement removal, bituminous roads; 3" thick
	Haul to Landfill							
	Debris Loading	CY	21	$ 11.79	$ 247.59		022203503080	Rubbish handling, loading
	Haul	CY	21	$ 0.90	$ 18.90		022203505100	2 Mile RT, rubbish handling, over 8 CY truck to LARW cell
	Tipping Fee	Ton	21	$ 70.00	$ 1,470.00		022203300100	Dump charges, building construction materials (assume 1 cy = 1 ton)
VIIb	Drum Mixer #1							Hauling and disposal accounted for in section VIIa.
	Removal of machinery	Days	2	$ 434.74	$ 869.48			
	Triple Rinse (RCRA Clean)	Days	1	$ 434.74	$ 434.74			Time needed to Triple rinse steel to RCRA Clean
	Decontamination	Days	1	$ 434.74	$ 434.74			
VIIc	Macro Extruder							Hauling and disposal accounted for in section VIIa.
	Triple Rinse (RCRA Clean)	Days	1	$ 434.74	$ 434.74			Time needed to Triple rinse steel to RCRA Clean
	Decontamination	Days	1	$ 434.74	$ 434.74			Cost based on field technician, estimated decon time for machinery in Restricted Area
VIId	Drum Compactor							Hauling and disposal accounted for in section VIIa.
	Triple Rinse (RCRA Clean)	Days	1	$ 434.74	$ 434.74			Time needed to Triple rinse steel to RCRA Clean
	Decontamination	Days	1	$ 434.74	$ 434.74			Cost based on field technician, estimated decon time for machinery in Restricted Area
VIIe	Gray Water Tank							
	Triple Rinse		1	$ 434.74	$ 434.74			Time needed to Triple rinse steel to RCRA Clean
	Decontamation		1	$ 434.74	$ 434.74			Time needed to Triple rinse steel to RCRA Clean
	DEMOLITION							
	Steel Tanks							
	Torch Cutting	lf	88	$ 1.25	$ 110.00		050909200100	Torch cutting steel 1/2" thick
	Tank Pad							
		SY	8	$ 82.00	$ 656.00		022202505400	
	Haul Volumes	CY	9	$ 2.39	$ 21.51		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
	Placement							
	Debris	CY	9	$ 2.46	$ 22.14		023155200010	place, w/ dozer (200% soil costs)
	Compaction of Material in Cell	CY	9	$ 0.27	$ 2.43		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
VIIf	Microencapsulation Extruder and Crusher							Hauling and disposal accounted for in section VIIa.
	Removal of machinery	Days	6	$ 434.74	$ 2,608.43			
	Triple Rinse (RCRA Clean)	Days	3	$ 434.74	$ 1,304.22			Time needed to Triple rinse steel to RCRA Clean
	Decontamination	Days	3	$ 434.74	$ 1,304.22			
VIIg	Kinetic Mixer							Hauling and disposal accounted for in section VIIa.
	Removal of machinery	Days	2	$ 434.74	$ 869.48			
	Triple Rinse (RCRA Clean)	Days	1	$ 434.74	$ 434.74			Time needed to Triple rinse steel to RCRA Clean
	Decontamination	Days	2	$ 434.74	$ 869.48			
VIIh	Reserved -- Box hopper and elevator have been removed							
VIIi	Dust Collection System					9317-M3		
	(all cement is included in Section VIIa)							
	Removal of Duct (in Building Debris vol)							Duct demolition included in building demolition above.

Section	Item		Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
		Removal of machinery	Days	2	$ 434.74	$ 869.48			Time needed to take machinery down from platforms
					Total	**$ 215,761.62**			
VIII	Rail Car Unloading Facility								
	DEMOLITION								
		Floor concrete	CY	17	$ 9.89	$ 168.13		02202505300	reinforced concrete
		Footing	LF	90	$ 8.37	$ 753.30		022201301000	Footings 1' wide x 2' thick
		Retaining walls	SF	360	$ 14.58	$ 5,248.80		022201302500	Cost reflects a 12" thick wall with a 20% addition for reinforcing bars
		Earthen Ramp	CY	9	$ 2.35	$ 21.15		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Soil Excavation	CY	84	$ 2.35	$ 197.40		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Haul volumes	CY	127	$ 2.39	$ 303.53		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Place Material in cell							
		Debris	CY	43	$ 2.46	$ 105.78		023155200010	place, w/ dozer (200% soil costs)
		Soil	CY	84	$ 1.23	$ 103.32		023155200010	place soil in cell w/dozer
		Compaction of material in cell	CY	127	$ 0.27	$ 34.29		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
		Restoration of Grade							
		Backfill	CY	9	$ 2.93	$ 26.37		023154522300	Common Earth hauling
		Final Grade	SY	50	$ 0.10	$ 5.00		023101003300	Final Grade Disturbed Area
					Total	**$ 6,967.07**			
IX	Railroads Inside Restricted Area								
	DEMOLITION								
		Ties , track	LF	1,150	$ 6.64	$ 7,636.00		022202403500	Site demolition - railroad removal, ties and track
		Ballast excavation	CY	831	$ 3.05	$ 2,534.55		022202403600	Excavate all ballast
		Base excavation	CY	1,406	$ 2.35	$ 3,304.10		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Soil excavation	CY	498	$ 2.35	$ 1,170.30		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Haul volumes	CY	2,841	$ 2.39	$ 6,789.99		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Placement in Cell							
		Debris	CY	106	$ 2.46	$ 260.76		023155200010	place, w/ dozer (200% soil costs)
		Soil	CY	2,735	$ 1.23	$ 3,364.05		023155200010	place soil in cell w/dozer
		Compaction in Cell	CY	34	$ 0.27	$ 9.18		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
		Restoration of Grade							
		Backfill	CY	498	$ 2.93	$ 1,459.14		023154522300	Common Earth hauling
		final Grade	SY	2,984	$ 0.10	$ 298.40		023101003300	Final Grade Disturbed Area
					Total	**$ 26,826.47**			
Xa	Roads Inside Restricted Area								
	EXCAVATION								
		Soil excavation	CY	6,821	$ 2.35	$ 16,029.35		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Soil hauling	CY	6,821	$ 2.39	$ 16,302.19		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Soil placement	CY	6,821	$ 1.23	$ 8,389.83		023155200010	place soil in cell w/dozer
		Soil compaction	CY	6,821	$ 0.27	$ 1,841.67		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
		Restoration of Grade							

Section	Item					Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
			Backfill			CY	1,575	$ 2.93	$ 4,614.75		023154522300	Common Earth hauling
			Final grade			SY	9,445	$ 0.10	$ 944.50		023101003300	Final Grade Disturbed Area
								Total	**$ 48,122.29**			
Xb	Roads Outside Restricted Area											
	EXCAVATION											
		Asphalt				SY	2,084	$ 2.86	$ 5,960.24		022202505010	Pavement removal, bituminous roads; 3" thick
		Haul to Landfill										
			Debris Loading			CY	174	$ 11.79	$ 2,051.46		022203503080	Rubbish handling, loading
			Haul			CY	174	$ 0.90	$ 156.60		022203505100	2 Mile RT, rubbish handling, over 8 CY truck to LARW cell
			Tipping Fee			Ton	174	$ 70.00	$ 12,180.00		022203300100	Dump charges, building construction materials (assume 1 cy = 1 ton)
		Restoration of Grade										
			Final grade			SY	2,084	$ 0.10	$ 208.40		023101003300	Final Grade Disturbed Area
								Total	**$ 20,556.70**			
Xc	Asphalt Pad Outside Restricted Area											
		Asphalt				SY	556	$ 2.86	$ 1,590.16		022202505010	Pavement removal, bituminous roads; 3" thick
		Haul to Landfill										
			Debris Loading			CY	47	$ 11.79	$ 554.13		022203503080	Rubbish handling, loading
			Haul			CY	47	$ 0.90	$ 42.30		022203505100	2 Mile RT, rubbish handling, over 8 CY truck to LARW cell
			Haul			Ton	47	$ 70.00	$ 3,290.00		022203300100	Dump charges, building construction materials (assume 1 cy = 1 ton)
		Restoration of Grade										
			Final grade			SY	556	$ 0.10	$ 55.60		023101003300	Final Grade Disturbed Area
								Total	**$ 5,532.19**			
XI	Reagent Delivery Silos											
		Dismantle				Days	3	$ 271.71	$ 815.12			
			Hauling			CY	10	$ 2.39	$ 23.90		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Concrete Pad				CY	47	$ 9.89	$ 464.83		02202505300	reinforced concrete
		Haul to Landfill										
			Debris Loading			CY	57	$ 11.79	$ 672.03		022203503080	Rubbish handling, loading
			Haul			CY	57	$ 0.90	$ 51.30		022203505100	2 Mile RT, rubbish handling, over 8 CY truck to LARW cell
			Tipping Fee			Ton	57	$ 70.00	$ 3,990.00		022203300100	Dump charges, building construction materials (assume 1 cy = 1 ton)
								Total	**$ 6,017.18**			
XII	Evaporation Pond									9535-1,2,3		
		Sludge removal				CY	348	$ 2.35	$ 817.80		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Liner Shredding				Days	2	$ 1,304.22	$ 2,608.43			Estimated time to shred (shredder plus personnel) the liner for the 275' x 150' pond
		Soil excavation				CY	695	$ 2.35	$ 1,633.25		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Haul volumes				CY	1,076	$ 2.39	$ 2,571.64		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Place into cell										
			Debris			CY	33	$ 2.46	$ 81.18		023155200010	place, w/ dozer (200% soil costs)
			Soil			CY	1,043	$ 1.23	$ 1,282.89		023155200010	place soil in cell w/dozer
		Compaction in Cell				CY	1,076	$ 0.27	$ 290.52		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
		Restoration of Grade										
			Backfill			CY	10,418	$ 2.93	$ 30,524.74		023154522300	Common Earth hauling
			Final grade			SY	4,167	$ 0.10	$ 416.70		023101003300	Final Grade Disturbed Area
								Total	**$ 40,227.15**			

Section	Item	Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
XIII	Evaporation Tanks (6)					9535-1,2,3		
	DECONTAMINATION							
	Triple Rinse (RCRA Clean)	Days	4.0	$ 434.74	$ 1,738.96			Time needed to Triple rinse steel to RCRA Clean
	Decontamination	Days	4.0	$ 434.74	$ 1,738.96			
	DEMOLITION							
	Foundation							
	Stem Wall	SF	2,200	$ 1.46	$ 3,212.00		022201302040	Cost reflects a 6" thick wall with a 20 % addition for reinforcing bars
	Footing/pad	SY	1,740	$ 9.89	$ 17,208.60		02202505300	reinforced concrete
	Soil excavation	CY	127	$ 2.35	$ 298.45		023154240260	loading into trucks
	Haul volumes	CY	709	$ 2.39	$ 1,694.51		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
	Place into cell							
	Debris	CY	582	$ 2.46	$ 1,431.72		023155200010	place, w/ dozer (200% soil costs)
	Soil	CY	127	$ 1.23	$ 156.21		023155200010	place soil in cell w/dozer
	Compaction in Cell	CY	709	$ 0.27	$ 191.43		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
	Restoration of Grade							
	Backfill	CY	127	$ 2.93	$ 372.11		023154522300	Common Earth hauling
	Final grade	SY	748	$ 0.10	$ 74.80		023101003300	Final Grade Disturbed Area
				Total	**$ 28,117.74**			
XIV	On Site Open Area							
	DEMOLITION							
	Removal of power poles							
	remove wire	days	2	$ 685.00	$ 1,370.00		Crew B-11C	
	cut up poles	Ea	14	$ 58.08	$ 813.05			Estimated
	Torch cut B25 Containers	Ea	6,000	$ 106.66	$ 639,952.62			torch cut of B25 containers $106.66 each
	Remove chainlink fence	LF	3,900	$ 1.98	$ 7,722.00		022201301700	Site demolition-chain link fence
	Remove misc. debris	days	5	$ 685.00	$ 3,425.00		Crew B-11C	
	Haul volumes	CY	16,710	$ 2.39	$ 39,936.90		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
	Place into cell							
	Debris	CY	6,382	$ 1.98	$ 12,636.36		022201301700	place, w/ dozer (200% soil costs)
	Soil	CY	10,328	$ 1.23	$ 12,703.44		023155200010	place soil in cell w/dozer
	Compaction of Material in Cell	CY	16,710	$ 0.27	$ 4,511.70		023153105680	excav/backfill/compact - compaction , sheepsfoot, 12" lift, 2 passes
	Restoration of grade							
	Backfill	CY	1,334	$ 2.93	$ 3,908.62		023154522300	Common Earth hauling
	Final Grade	SY	4,002	$ 0.10	$ 400.20		023101003300	Final Grade Disturbed Area
				Total	**$ 727,379.89**			
XV	Health Physics Staff and Radiation Survey Equipment							
	NOTE: assume HP support is needed for 24 months to account for pre-closure preparation and post-closure shutdown							
	HEALTH PHYSICS AND SURVEY EQUIPMENT							
	PPE & misc. supplies	Each	1	$ 10,847.13	$ 10,847.13			assumed one time cost
	In-situ gamma spectrometer	Each	2	$ 41,785.76	$ 83,571.53			assume existing equipment is unavailable (estimated purchase cost)
	Badging	LS	1	$ 16,270.71	$ 16,270.71			estimated cost
	Analytical costs	LS	1	$ 106,553.70	$ 106,553.70			assume 400 QC samples at $258.57 each
	HEALTH PHYSICS PERSONNEL							
	Senior health physicist	Days	360	$ 793.93	$ 285,814.30			assume one senior health physicist at $99.24 per hour for 18 months

Section	Item		Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
		Senior HP technician	Days	360	$ 501.42	$ 180,512.95			assume one senior HP technician at $62.68 per hour for 18 months
		HP technicians (3)	Days	1,080	$ 417.86	$ 451,291.50			assume three HP technicians at $52.23 per hour for 18 months
	CLOSURE REPORT		Each	1	$ 54,342.33	$ 54,342.33			(2) estimated costs
	MONUMENTS		Each	2	$ 2,661.23	$ 5,322.46			
					Total	**$ 1,194,526.63**			
	Summary of Volumes from Previous Sections								
	Debris				14,507	cy			
	Fill required for Debris				43,521	cy			Assume all debris requires 3:1 fill:debris ratio
	Contaminated Soil & Ballast				45,664	cy			
	Total Material Disposed of				60,171	cy			
XVI	Cell Closure						Drawing set 0017		Updated to Rev. G dimensions April 2002
	Cover								
		Remove Overburden Radon Barrier	CY	7,955	$ 1.34	$ 10,659.70		023154240260	Assume remove top 1' of 10' Unit 4 layer (11% of cover volume is overburden)
		Excavate Compacted Soil	CY	6,920	$ 2.35	$ 16,262.00		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Excavate Radon Barrier	CY	72,312	$ 2.35	$ 169,933.20		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Excavate Type B Filter	CY	18,538	$ 3.13	$ 58,023.94		023154325400	Assume need of 1.25 cy for 1 cy of sand/riprap (50% each), multiply needed volume by (2) (1.25)
		Excavate Sacrificial Soil	CY	37,674	$ 2.35	$ 88,533.90		023154240260	add 75% to excavation cost to account for heavy soil and loading into trucks
		Excavate Type A Filter	CY	19,138	$ 3.13	$ 59,901.94		023154325400	Assume need of 1.25 cy for 1 cy of sand/riprap (50% each), multiply needed volume by (2) (1.25)
		Excavate Rock	CY	58,578	$ 3.13	$ 183,349.14		023154325400	Assume need of 1.25 cy for 1 cy of sand/riprap (50% each), multiply needed volume by (2) (1.25)
		Material Cost (rock Layer)	CY	58,578	$ 0.80	$ 46,862.40		2X BLM Contract	Assume cost is 2x current contract with BLM
		Screening Plant	Mon	6	$ 32,605.40	$ 195,632.40			Cost Estimated by Envirocare; Powergrid screen at 280 cy/hour
		FEL and crew	Days	120	$ 1,195.53	$ 143,463.90			Crew feeds hopper and moves/loads material
		Material Processing	CY	96,254	$ 1.46	$ 140,407.63			Estimated cost to prepare rock and filter layers to meet gradation requirements
		Flexible Membrane (HDPE & Geotextile)	SF	996,592	$ 0.41	$ 403,819.08			Based on 2000 costs plus inflation (material and installation)
		Haul Volumes							
		Compacted Soil	CY	6,920	$ 2.39	$ 16,538.80		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Radon Barrier	CY	72,312	$ 2.39	$ 172,825.68		023154900310	Haul material using a 12 CY dump truck @ 0.25 miles RT
		Type B Filter Zone	CY	18,538	$ 5.73	$ 106,222.74		023154901250	Use a 20 cy dump trailer with a RT of 10 miles
		Sacrificial Soil	CY	37,674	$ 5.73	$ 215,872.02		023154901250	Use a 20 cy dump trailer with a RT of 10 miles
		Type A Filter Zone	CY	19,138	$ 5.73	$ 109,660.74		023154901250	Use a 20 cy dump trailer with a RT of 10 miles
		Rock	CY	58,578	$ 5.73	$ 335,651.94		023154901250	Use a 20 cy dump trailer with a RT of 10 miles
		Placement							
		Compacted Soil	CY	6,920	$ 1.23	$ 8,511.60		023155200010	place soil in cell w/dozer
		Radon Barrier	CY	72,312	$ 1.23	$ 88,943.76		023155200010	place soil in cell w/dozer
		Type B Filter Zone	CY	18,538	$ 1.23	$ 22,801.74		023155200010	place soil in cell w/dozer
		Sacrificial Soil	CY	37,674	$ 1.23	$ 46,339.02		023155200010	place soil in cell w/dozer
		Type A Filter Zone	CY	19,138	$ 1.23	$ 23,539.74		023155200010	place soil in cell w/dozer

Section	Item		Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
		Rock	Tons	93,725	$ 1.91	$ 179,014.37		023704500350	Cost for labor/equipment to place 100 lb riprap; material costs addressed above
		Deflocculant (STPP)	lbs	136,669	$ 0.43	$ 58,147.19			Based on 2001 cost to Envirocare plus inflation
		Radon Barrier Compaction	CY	72,312	$ 0.43	$ 31,094.16		023153105720	Compaction of material using a sheepsfoot, 12" lift, 4 passes
					Total	**$ 2,932,012.73**			
	Roads Around the Cell								
		Grading	SY	4,694	$ 0.26	$ 1,220.44		023101000200	Final grade subgrade for roads
		Road Base							
		Material	CY	1,565	$ 8.58	$ 13,427.70			
		Placement	CY	1,565	$ 0.43	$ 672.95			
	Drainage								
		Excavation of Ditches		5,903	$ 2.31	$ 13,633.80			
		Erosion Protection Material							
		Excavation	CY	2,952	$ 3.02	$ 8,911.32			
		Material cost	CY	2,952	$ 0.80	$ 2,361.60			Assume cost is 2x current Envirocare contract with BLM ($0.40/cy)
		Screening	Mon	1	$ 32,605.40	$ 32,605.40			Cost Estimated by Envirocare; Powergrid screen at 280 cy/hour
		FEL and Crew	Days	6	$ 1,195.53	$ 7,173.19			Crew feeds hopper and moves/loads material
		Haul	CY	2,952	$ 5.73	$ 16,914.96		023154901250	Use a 20 cy dump trailer with a RT of 10 miles
		Placement	Tons	4,724	$ 1.91	$ 9,022.84		023704500350	Cost for labor/equipment to place 100 lb riprap; material costs addressed above
		Filter Zone							
		Excavation		-		$ -		023154325400	This material was excavated as part of the erosion barrier volume
		Screening		-		$ -			Screening plant cost covered by erosion barrier above
		FEL and Crew		-	$ 1,195.53	$ -			This time covered as part of the erosion barrier volume
		Haul		984	$ 5.73	$ 5,638.32		023154901250	Use a 20 cy dump trailer with 10 miles RT
		Placement		984	$ 1.23	$ 1,210.32		023155200010	place soil in cell w/dozer
		Fences		-					
		Installation of Permanent Fencing		3,100	$ 12.57	$ 38,967.00		022202201750	Fencing-6' high with barbed wire
		Signs		31	$ 16.31	$ 505.59			Estimated, adjusted annually for inflation
		Seal Suction Lysimeters		-					
					Total	**$ 152,265.44**			
XVII	General Closure of Section								
	HAUL TO LANDFILL								
		Debris loading	CY	50	$ 11.79	$ 589.50		022203503080	Rubbish handling, loading
		Haul	CY	50	$ 0.90	$ 45.00		022203505100	2 Mile RT, rubbish handling, over 8 CY truck to LARW cell
		Tipping fee	Ton	50	$ 70.00	$ 3,500.00		022203300100	Dump charges, building construction materials (assume 1 cy = 1 ton)
	CLEAN UP OF VARIOUS ITEMS								
		Heavy Equipment	LS	11	$ 2,174.57	$ 23,920.23			Assume 5 days of decon, or $2,174.57
		6 wheel trucks	Each	2	$ 1,304.22	$ 2,608.43			Assume decon requires 3 days each, or $1,304.22
		Bulldozer	Each	2	$ 869.48	$ 1,738.96			Assume decon requires 2 days each, or $869.48
		Front-end loader	Each	1	$ 652.11	$ 652.11			Assume decon requires 1.5 days each, or $652.11
		Backhoe	Each	2	$ 652.11	$ 1,304.22			Assume decon requires 1.5 days each, or $652.11
		Compactors	Each	1	$ 434.74	$ 434.74			Assume decon requires 1 day each, or $434.74
		Water Trucks	Each	3	$ 869.48	$ 2,608.43			Assume decon requires 2 days each, or $869.48
		Graders	Each	1	$ 434.74	$ 434.74			Assume decon requires 1 day each, or $434.74
		Shredders	Each	2	$ 434.74	$ 869.48			Assume decon requires 1 day each, or $434.74
		Cats	Each	2	$ 434.74	$ 869.48			Assume decon requires 1 day each, or $434.74

Section	Item					Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
		Pickup trucks				Each	2	$ 108.68	$ 217.37			Assume decon 4 per day, or $108.68 each
		JCB's				Each	3	$ 2,174.77	$ 6,524.31			Assume decon requires 3 days each, or $1,304.22
		Forklifts				Each	8	$ 434.74	$ 3,477.91			Assume decon requires 1 day each, or $434.74
		Other containers				LS	1	$ 1,304.22	$ 1,304.22			Assume decon requires 3 days each, or $1,304.22
								Total	**$ 51,099.12**			
XVIII	Stockpile of Closure Assets											
	ENVIROCARE WILL NOT TAKE CREDIT FOR STOCKPILES											
					Summary of I - XVIII				**$ 8,137,605.59**			
XIX	Mobilization							**Total**	**$ 81,376.06**			Assume 1 % of direct costs
XX	Contingency							**Total**	**$ 244,128.17**			Assume 3 % of direct costs
XXI	Engineering and Redesign							**Total**	**$ 244,128.17**			Assume 3 % of direct costs
XXII	Reserved											Reduced to zero with approved cover design April 2002
XXIII	Profit and Overhead							**Total**	**$ 569,632.39**			Assume 7 % of direct costs
XXIV	Management Fee and Legal Expense							**Total**	**$ 406,880.28**			Assume 4 % of direct costs for Management and 1 % direct costs for legal expenses
XXV	DEQ Oversight of Project							**Total**	**$ 244,128.17**			Assume 3 % of direct costs
XXVI	Post Operational Monitoring and Maintenance (Year 1-100)											
		Travel										
			Labor			Hours	10	$ 54.35	$ 543.47			Travel time, 5 days at two hours per day
			Mileage			Miles	750	$ 0.38	$ 281.25			5 trips at 150 miles per roundtrip from government mileage reimbursement rates
		Off Site features										
			Labor			Hours	4	$ 54.35	$ 217.39			Inspection of surrounding areas
		Access road maintenance										
			equipment			Day	1	$ 364.10	$ 364.10			Fraction of the entire day (8 hours) the hoe is rented
			labor			Hour	4	$ 54.35	$ 217.39			Environmental technician
		Fence maintenance										
			labor			Hour	6	$ 54.35	$ 326.08			Environmental technician
		Gates (2)										
			materials			Each	1	$ 326.05	$ 326.05			Estimated
			labor			Hour	2	$ 54.35	$ 108.69			Environmental technician
		Signs (2)										
			materials			Each	1	$ 54.35	$ 54.35			Estimated
			labor			Hour	2	$ 54.35	$ 108.69			Environmental technician
		Monuments (2)										
			materials			Each	1	$ 50.57	$ 50.57			Estimated
			labor			Hour	2	$ 54.35	$ 108.69			Environmental technician
		Wells (2)										
			materials			Each	1	$ 477.03	$ 477.03			Estimated
			labor			Hour	4	$ 54.35	$ 217.39			Environmental technician
		Slopes (2)										
			materials			CY	2	$ 21.73	$ 43.46			Estimated

Section	Item		Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
		equipment	Day	1	$ 353.22	$ 353.22			
		labor	Hour	2	$ 54.35	$ 108.69			Environmental technician
		Cell structure (2)							
		materials	CY	2	$ 108.68	$ 217.37			Estimated
		equipment	Day	2	$ 353.22	$ 706.45			Fraction of the entire day (8 hours) the hoe is rented
		labor	Hour	2	$ 54.35	$ 108.69			Environmental technician
		Diversion channels (2)							
		equipment	Day	1	$ 353.22	$ 353.22			Fraction of the entire day (8 hours) the hoe is rented
		labor	Hour	2	$ 54.35	$ 108.69			Environmental technician
		Written report to regulators	Each	1	$ 108.68	$ 108.68			Cost estimated on 2 hours to write; does not require an extra trip to the site
					Total	**$ 5,509.66**			
XXVII	Water Samples -- Radiological (Year 1-100)								
	Sample parameters according to Condition I.F of GWQDP								
		Number of wells	Each	14					
		Frequency	Annual	1					
		Labor, sampling	Days	2	$ 446.06	$ 892.13			
		Analysis							
		Radiologic parameters	Each	14	$ 1,290.40	$ 18,065.60			Average cost per well to Envirocare STL
		Report	Each	1	$ -	$ -			Cost of report is included in sample analysis costs above
					Total	**$ 18,957.73**			
XXVIII	Water Samples -- RCRA (Year 1-30)								
	Sample parameters according to Module VI of the RCRA Permit								
		Number of wells	Each	14					
		Frequency	Annual	1					
		Labor, sampling	Days	2	$ 446.06	$ 892.13			
		Analysis							
		RCRA parameters	Each	14	$ 2,279.68	$ 31,915.46			Average cost per well to Envirocare STL
		Report	Each	1	$ -	$ -			Cost of report is included in sample analysis costs above
					Total	**$ 32,807.59**			
XXIX	Embankment Survey (Year 1-30)								
		Survey of Mixed Waste Embankment	Each	1	$ 1,674.66	$ 1,674.66			Cost estimated by Envirocare on historical cost for aerial survey of entire Section 32
					Total	**$ 1,674.66**			
XXX	Airborne Particulate Monitoring (Year 1)					$ -			
	(all following sampling activities will be performed during the weekly sampling visit)								
	Gross Alpha								
		Number of samplings per day	Num	9		$ -			
		Sampling	Days	52	$ 446.06	$ 23,195.35			Time required for environmental technician for all sampling
		Analysis (Gross alpha and beta)	Each	468	$ 49.42	$ 23,130.56			from STL
	Isotopic analysis								
		Number of Alpha samples collected quarterly	Num	6					
		Analysis (total U, Ra, Th, Pb)	Each	24	$ 351.43	$ 8,434.32			from STL
					Total	**$ 54,760.23**			
XXXI	Soil Sampling (Year 1)								
		(sampling labor is part of XXVIII)							
	Gross Alpha								
		Analysis (gamma spectrum)	Each	45	$ 142.77	$ 6,424.75			from STL
	Isotopic analysis								
		Analysis (Th-230,Th-232, and total U)	Each	6	$ 148.26	$ 889.58			from STL

Section	Item	Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
				Total	**$ 7,314.33**			
XXXII	Vegetation Sampling (Year 1)							
	(sampling labor is part of XXVIII)							
	Radionuclide Sampling							
	Analysis (gamma, Th, Po, Pb, total U)	Each	4	$ 391.74	$ 1,566.95			
				Total	**$ 1,566.95**			
XXXIII	Gamma Exposure Monitoring (Year 1)							
	(samples are collected Quarterly for the first year, the "electret" reader currently owned by Envirocare will be used)							
	Frequency	Num	4					
	Sampling	Num	8					
	Radionuclide Sampling							
	e-perm chamber	Each	32	$ 27.43	$ 877.83			Estimated costs from Envirocare
	"electret"	Each	32	$ 16.46	$ 526.76			Estimated costs from Envirocare
	Time to read electret	Days	1	$ 438.75	$ 438.75			Assume 1/2 day to read gamma electrets
				Total	**$ 1,843.34**			
XXXIV	Radon Exposure Monitoring (Year 1)							
	(samples are collected Quarterly for the first year, the "electret" reader currently owned by Envirocare will be used)							
	Frequency	Num	4					
	Sampling	Num	8					
	Radionuclide Sampling							
	e-perm chamber	Each	32	$ 27.43	$ 877.83			Estimated costs from Envirocare
	"electret"	Each	32	$ 16.46	$ 526.76			Estimated costs from Envirocare
	Time to read electret	Days	1	$ 438.75	$ 438.75			Assume 1/2 day to read radon electrets
				Total	**$ 1,843.34**			
XXXV	Unadjusted Total for Cell Closure							
	Summary of Cell Closure (Items I-XXV)			**Total**	**$ 9,927,878.82**			
	Total cost for Year 1 Items XXVI-XXXIV (5% contingency)				**$ 132,591.70**			
	Cost per year for years 2-30 Items XXVI-XXIX (5% contingency)				**$ 61,897.11**			
	Cost per year for years 31-100 Items XXVI-XXVII (5% contingency)				**$ 25,690.75**			
	Inflation vs Interest Analysis		1.00%	Real return				
	Costs are in 2004 dollars, Year 2 -100 activities are converted into 2004 dollars using Future (F) to Present (P) factor.							

Year	Future Cost	Year	Present Cost	Future Cost
1	$ 132,591.70	$ 131,278.91	26	61897.11	$ 47,787.54
2	$ 61,897.11	$ 60,677.50	27	61897.11	$ 47,314.40
3	$ 61,897.11	$ 60,076.73	28	61897.11	$ 46,845.94
4	$ 61,897.11	$ 59,481.91	29	61897.11	$ 46,382.12
5	$ 61,897.11	$ 58,892.98	30	61897.11	$ 45,922.89
6	$ 61,897.11	$ 58,309.88	31	25690.75	$ 18,871.84
7	$ 61,897.11	$ 57,732.55	32	25690.75	$ 18,684.99
8	$ 61,897.11	$ 57,160.95	33	25690.75	$ 18,499.99
9	$ 61,897.11	$ 56,595.00	34	25690.75	$ 18,316.82
10	$ 61,897.11	$ 56,034.65	35	25690.75	$ 18,135.47
11	$ 61,897.11	$ 55,479.85	36	25690.75	$ 17,955.91
12	$ 61,897.11	$ 54,930.54	37	25690.75	$ 17,778.13
13	$ 61,897.11	$ 54,386.68	38	25690.75	$ 17,602.11
14	$ 61,897.11	$ 53,848.20	39	25690.75	$ 17,427.83
15	$ 61,897.11	$ 53,315.05	40	25690.75	$ 17,255.28
16	$ 61,897.11	$ 52,787.17	41	25690.75	$ 17,084.43

Section	Item					Units	Quantity	2004 Unit Cost	Total Cost	Figure #	Means Reference #	Notes
			17	$ 61,897.11	$ 52,264.53	42	25690.75	$ 16,915.28				
			18	$ 61,897.11	$ 51,747.06	43	25690.75	$ 16,747.80				
			19	$ 61,897.11	$ 51,234.71	44	25690.75	$ 16,581.98				
			20	$ 61,897.11	$ 50,727.44	45	25690.75	$ 16,417.80				
			21	$ 61,897.11	$ 50,225.18	46	25690.75	$ 16,255.25				
			22	$ 61,897.11	$ 49,727.91	47	25690.75	$ 16,094.31				
			23	$ 61,897.11	$ 49,235.55	48	25690.75	$ 15,934.96				
			24	$ 61,897.11	$ 48,748.07	49	25690.75	$ 15,777.19				
			25	$ 61,897.11	$ 48,265.42	50	25690.75	$ 15,620.98				
							First 50Years	$ 2,011,375.59				
			Year		Future Cost	Year	Present Cost	Future Cost				
			51	$ 25,690.75	$ 15,466.31	76	25690.75	$ 12,060.14				
			52	$ 25,690.75	$ 15,313.18	77	25690.75	$ 11,940.74				
			53	$ 25,690.75	$ 15,161.57	78	25690.75	$ 11,822.51				
			54	$ 25,690.75	$ 15,011.45	79	25690.75	$ 11,705.46				
			55	$ 25,690.75	$ 14,862.82	80	25690.75	$ 11,589.56				
			56	$ 25,690.75	$ 14,715.67	81	25690.75	$ 11,474.81				
			57	$ 25,690.75	$ 14,569.97	82	25690.75	$ 11,361.20				
			58	$ 25,690.75	$ 14,425.71	83	25690.75	$ 11,248.71				
			59	$ 25,690.75	$ 14,282.88	84	25690.75	$ 11,137.34				
			60	$ 25,690.75	$ 14,141.47	85	25690.75	$ 11,027.07				
			61	$ 25,690.75	$ 14,001.45	86	25690.75	$ 10,917.89				
			62	$ 25,690.75	$ 13,862.82	87	25690.75	$ 10,809.79				
			63	$ 25,690.75	$ 13,725.57	88	25690.75	$ 10,702.76				
			64	$ 25,690.75	$ 13,589.67	89	25690.75	$ 10,596.80				
			65	$ 25,690.75	$ 13,455.12	90	25690.75	$ 10,491.88				
			66	$ 25,690.75	$ 13,321.90	91	25690.75	$ 10,388.00				
			67	$ 25,690.75	$ 13,190.00	92	25690.75	$ 10,285.15				
			68	$ 25,690.75	$ 13,059.41	93	25690.75	$ 10,183.31				
			69	$ 25,690.75	$ 12,930.11	94	25690.75	$ 10,082.49				
			70	$ 25,690.75	$ 12,802.08	95	25690.75	$ 9,982.66				
			71	$ 25,690.75	$ 12,675.33	96	25690.75	$ 9,883.82				
			72	$ 25,690.75	$ 12,549.83	97	25690.75	$ 9,785.96				
			73	$ 25,690.75	$ 12,425.58	98	25690.75	$ 9,689.07				
			74	$ 25,690.75	$ 12,302.55	99	25690.75	$ 9,593.14				
			75	$ 25,690.75	$ 12,180.74	100	25690.75	$ 9,498.16				
							Second 50 Years	$ 612,281.61				
XXXVI	Total Cell Closure											
		Closure Costs						$ 9,927,878.82				
		Post Closure Costs (Year 1-50)						$ 2,011,375.59				
		Post Closure Costs (Year 51-100)						$ 612,281.61				
	PROPOSED AMOUNT OF TRUST FUND IS							**$ 12,551,536.01**				
							Current	$ 12,469,198.97				
						Increase Required		$ 82,337.04				